

Radiotherapy Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024-2032

<https://marketpublishers.com/r/R00569AAA5AEEN.html>

Date: February 2025

Pages: 128

Price: US\$ 4,850.00 (Single User License)

ID: R00569AAA5AEEN

Abstracts

The Global Radiotherapy Market reached USD 7 billion in 2023 and is set to expand at a CAGR of 5.7% from 2024 to 2032. Radiotherapy plays a crucial role in cancer treatment by using high doses of radiation such as X-rays, gamma rays, or charged particles to damage the DNA of cancer cells, preventing their further growth and division. This treatment can be administered externally with a linear accelerator or internally by placing radioactive material near cancerous cells.

The rising incidence of cancer worldwide is a primary driver behind the market's growth. Increasing awareness of advanced cancer treatments, including radiotherapy, is further supporting market expansion. Continuous technological advancements are improving the precision and efficiency of radiation therapy, contributing to wider adoption.

The market is categorized by type into internal radiation therapy, external beam radiation therapy, and systemic radiation therapy. External beam radiation therapy accounted for USD 4.6 billion in revenue in 2023 and is projected to grow at a CAGR of 5.6% during the forecast period. The segment includes intensity-modulated radiation therapy, image-guided radiation therapy, and proton therapy, among others. Growing cases of localized cancers, including breast, prostate, lung, and colorectal cancers, are fueling demand for this segment. Technological advancements in external beam radiation therapy continue to enhance treatment outcomes, driving further market growth.

By application, radiotherapy is used for treating various cancers, including lung, prostate, breast, cervical, and head and neck cancers. Breast cancer accounted for the highest revenue, reaching USD 2 billion in 2023, with a 28.8% market share. The

increasing global burden of breast cancer continues to propel the adoption of radiotherapy as a primary treatment option.

The market is further segmented by end use, including hospitals, radiotherapy centers, ambulatory surgery centers, and cancer research institutes. Hospitals generated the highest revenue of USD 2.9 billion in 2023, as they offer advanced radiotherapy solutions and serve as a comprehensive hub for cancer treatment. The availability of cutting-edge radiotherapy equipment and integrated treatment options in hospitals solidifies their leading position in the industry. Collaborations between hospitals and radiotherapy system manufacturers are also accelerating advancements in treatment technology.

Regionally, North America remains a key revenue generator, with the market expected to reach USD 4.1 billion by 2032. The United States led the regional market with revenues of USD 2.4 billion in 2023, driven by a high prevalence of cancer cases and strong healthcare infrastructure. The increasing adoption of advanced radiotherapy solutions across hospitals and specialized treatment centers further boosts market expansion.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definitions
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Base estimates and calculations
 - 1.3.1 Base year calculation
 - 1.3.2 Key trends for market estimation
- 1.4 Forecast model
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
 - 1.5.2 Data mining sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.1.1 Technological advancement in radiotherapy
 - 3.2.1.2 Increasing number of cancer cases globally
 - 3.2.1.3 Growing public awareness related to cancer therapy
 - 3.2.1.4 Increasing healthcare infrastructure and R&D investments
 - 3.2.2 Industry pitfalls and challenges
 - 3.2.2.1 Lack of skilled and experienced healthcare professionals in developing and underdeveloped regions
- 3.3 Growth potential analysis
- 3.4 Future market trends
- 3.5 Regulatory landscape
- 3.6 Technological landscape
- 3.7 Porter's analysis
- 3.8 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Company matrix analysis
- 4.4 Competitive analysis of major market players
- 4.5 Competitive positioning matrix
- 4.6 Strategy dashboard

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY TYPE, 2021 – 2032 (\$ MN)

- 5.1 Key trends
- 5.2 External beam radiation therapy
 - 5.2.1 Intensity-modulated radiation therapy (IMRT)
 - 5.2.2 Image-guided radiation therapy (IGRT)
 - 5.2.3 Proton therapy
 - 5.2.4 Other external radiation therapies
- 5.3 Internal radiation therapy
- 5.4 Systemic radiation therapy

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 – 2032 (\$ MN)

- 6.1 Key trends
- 6.2 Lung cancer
- 6.3 Prostate cancer
- 6.4 Breast cancer
- 6.5 Cervical cancer
- 6.6 Head and neck cancer
- 6.7 Other applications

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 – 2032 (\$ MN)

- 7.1 Key trends
- 7.2 Hospitals
- 7.3 Radiotherapy centers and ambulatory surgery centers
- 7.4 Cancer research institutes

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2032 (\$ MN)

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.2 UK
 - 8.3.3 France
 - 8.3.4 Spain
 - 8.3.5 Italy
- 8.4 Asia Pacific
 - 8.4.1 China
 - 8.4.2 Japan
 - 8.4.3 India
 - 8.4.4 Australia
- 8.5 Latin America
 - 8.5.1 Brazil
 - 8.5.2 Mexico
- 8.6 Middle East and Africa
 - 8.6.1 South Africa
 - 8.6.2 Saudi Arabia

CHAPTER 9 COMPANY PROFILES

- 9.1 Accuray
- 9.2 Brainlab
- 9.3 Curium
- 9.4 Canon Medical Systems
- 9.5 Elekta
- 9.6 Hitachi High-Tech
- 9.7 IBA Radiopharma Solutions
- 9.8 Isoray Inc.
- 9.9 Mevion Medical Systems
- 9.10 Mitsubishi Electric
- 9.11 Nordion
- 9.12 NTP Radioisotopes

9.13 RefleXion

9.14 Toshiba Energy Systems & Solutions

9.15 Varian Medical Systems

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